



Figure s1 the EDS characterization of the Co-PAA/CS film.

Table s1 the composition of the Co-PAA/CS film.

Element	Weight (%)	Atom (%)
C K	24.67	50.14
O K	14.03	21.41
Cl K	11.13	7.66
Co L	50.18	20.79
Amounts	100.00	